

SEQUENCE LISTING

<110> Shimkets, Richard A.
Leach, Martin D.

<120> cSingle Nucleotide Polymorphisms for Known Genes

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Q. 3. If $\frac{1}{2} \sin x + \frac{1}{2} \cos x = \frac{\sqrt{2}}{2}$, then find the value of $\tan x$.

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CACATGTGGG GACAGGGCTG GTGTGCCTGC TCCCAGCCTC TTGCTCAGAG C 51

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CGAGCGGCAC CCAGAGCCTG CACCCGCCCT CACCGTCCTT CTGCGTCCCC C

51

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51

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<210> 304
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AAAGATGTTT GAATACTTAA ACACTATCAC AAGATGGCAA AATGCTGAAA G 51

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TGGTGGAGCC ACTGCAGTGT TATCTAAAAA TAAGAATATT TTGTTGAGAT A 51

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CACTTAAC TT GCATGTGCAC AGCTTCTGGT AACAAATATC GCTAAACCTT A 51

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CAATCAGAAT TGATAAGCAC TGTTCTTCCA CTCCATTTAG CAATTATGTC A 51

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TCCATCCCTC TTTTGGGCTC TTCTGCAGGG AAGTAACATT TACTGAGCAC C 51

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<210> 323
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51

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CCGCTGTCTC TGTCTTCGCT TTTTATTCAA GAAGAATAAT GCGACGAAAA T 51

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TGGGTGATGA TCACTGTGCT GCTTGCAGCT CATGGCAGAG CATTCACTGC C 51

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ACAGACTGGC TGCAGCATTA GGAATTAGGT CATTCCGAAA CTCATCATTG A 51

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CCAACCCTAG GGAATCAACA CTTAATATAA TTGCCACTT CTCCTTTTC T 51

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TGCAGCCGGAC CACGACGTCA CGCAGGAAAG GGACGAGGTG TGGGTGGTGG G 51

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GCAGGGTCTTC TTTGAAGGCC TATGGCAATG GCTACTCCAG CAACGGCAAC A 51

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<400> 358
ATTGTAGTAC AAATGACTCA CTGCTATAAA GCAGTTTTTC TACTTTAAA G 51

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<400> 359
ATAAAATTAG AATAAAATTG TAAAAATTGT ATAGAGATAT GCAGAAGGAA G 51

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51

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GGGGCCGGGC ACTGCCAGG AAGGGGCTCC GGGAGAGGGA GCCGGCGGCT G

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AGACGAAGAC CCCAGGAAGT CATCCCGCAA TGGGAGAGAC ACGAACAAAC C

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51

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AGAGTCAAAA ATCCAAGTTT GGATTGTAAG CAGCCTTGAC AGTAATCACT G

51

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AAGCAGCCTT GACAGTAATC ACTGAGTGGT AGGGAAAAAA AGACAGTTGG G

51

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<210> 371

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<210> 372

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<210> 373

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GATAGGACTC AAGCTTATTT GGGATTCTGA TCAATTCTTT CTGATGTTGT T 51

<210> 374
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TACAGCCATC TGTACCTACT GGAGCTGCAG AAGGGAAAGTC CACTCAGTCA C 51

<210> 375
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<400> 375
AGCAGTGCAG CCCCGGCCGCG GAGCAAGGAG CCTCGGCCCG CGCCCCGGCGC C 51

<210> 376
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GAGAAAAAGC ATGGTACCCA ACCGATTTC CACTTTCAG CAATACTTCA C

51

<210> 377
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TAAAGTTTA AGAAATGTCA TAATGTCATG AGCTTGAAAT ATCTCTAGGC A

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AGCAAAGAAA CACTGGCAGA ATTCCCTGCAT TTGCAAAATT CTAAGTTTG G

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<400> 380
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<210> 381
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CAATGCATGA ATCTGTACCC TTTCGGAGGGC ACTCACATGC CGCCCCCAGC 50

<210> 382
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<400> 382
TTGTTCATGA TTTCTTGATG TTCCTTAATG GAAAACTAAG AGATGGAATT 50

<210> 383
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<400> 383
GCCGAGTCCG CTGGTGGCG GACCCTAGGG GAGCAGCCAG TAGGGAAGTT G 51

<210> 384
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CCGAGTCCGC TGGTGGGCAG ACCCATGGGG AGCAGCCAGT AGGGAAGTTG G 51

<210> 385
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GGGAGCAGCC AGTAGGGAAG TTGGGGGAGT TCCAGAATCA GGGGGCGTGG C 51

<210> 386
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<223> Accession number cg43064090

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TAATCGGGAG GGCTGGAGCA GAGGGGGGCC CCGCCGAGGG GCGTGGTCAG T

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<223> Accession number cg30490224

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GATGCCAAAA AAACAAAGGT GAGAACCCAC AACACAGGTC TAAACTCAGC A

51

<210> 388

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CCCGCCCCAGC CCGACGCCATA CTGAGTCCCC GCGCTCGCCC CACCGGGCGCG C 51

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<210> 450
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ACAATTCAAGA GAGGGAGACT GAGCATAACAC CAGCATTGAT CATGGTGCCA A

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GAAGACAAAGG TGGTACAAAG CCCTCAATCT CTGGTTGTCC ACGAGGGAGA C

51

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CAGACTTCCA CAGAGTGCTG GATGAACGCG GCCTGCCTTG CCCCAGGGTT A

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GTCAGCCGCT ACCTCGACTG GATCCTATGG GCACATCAGA GACAAGGAAG C

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CCAGGATCCA TTTTGAGGAT TATGGTGTGC TGGGACACCA TCAACTCCTC A

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51

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TTCTTCATCT TGACATGCTA AAATGGAAAT TACGCAGTTT CTCTCTATCA A

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<210> 639
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<210> 640

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CGTCCAGAG GAGCATATCT GCTGACTGAT GACCTGCAAG AGTCATCCAG A

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<223> Accession number cg44010855

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<210> 651
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<400> 652
Pro Ala Glu Lys Asp Ala Val Pro Gln Thr Phe Ser Val Leu
1 5 10

<210> 653
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<400> 653
Arg Leu His Arg Leu Arg Gly Glu Gln Met Ala Ser Tyr Phe
1 5 10

<210> 654
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Gly Ala Pro Leu Tyr Met Asp Ser Arg Ala Asp Arg Lys Leu
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<210> 655

<211> 14

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<222> (7)...(0)

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<400> 655

Gln Ala Gly Thr Thr Leu Asp Leu Asp Leu Gly Gly Lys His
1 5 10

<210> 656

<211> 14

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<400> 656

Lys Cys Glu Cys Ser Arg Ala Tyr Gln Met Asp Leu Ala Thr
1 5 10

<210> 657

<211> 14

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<222> (7)...(0)

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Asp Val Arg Gly Asn Leu Lys Gly Asn Thr Glu Gly Leu Gln
1 5 10

<210> 658

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<210> 659
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<400> 659
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1 5 10

<210> 660
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<400> 660
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<210> 661
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<400> 661
Ser Arg Gly Tyr Arg Asn Arg Arg Ser Ser Arg Glu Thr Arg
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<400> 662
Gly Ala Met Leu Leu Asn Ile Ser Gly His Val Lys Glu Ser
1 5 10

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<400> 663
Gln Gly Gly Lys Leu Ser Val Val Leu Arg Ala Glu Asp Ile
1 5 10

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<400> 664
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1 5 10

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<400> 665
Val Val Ile Pro Ser Asp Phe Phe Gln Ile Val Gly Gly Ser
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<400> 666
Lys Arg Lys Leu Phe Ile Arg Ser Met Gly Glu Gly Thr Ile
1 5 10

<210> 667
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<400> 667
Glu Gln Ala Arg Gln Gly Leu Lys Gly Leu Glu Glu Thr Val
1 5 10

<210> 668
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Ser Phe Leu Ile Ser Pro Leu Thr Pro Ala His Ala Gly Thr
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<400> 670

Trp Cys Ser Lys Lys Lys Asp Ala Ala Val Met Asn Gln Glu
1 5 10

<210> 671

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<210> 672

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Gly Ile Gln Asn Lys Glu Val Glu Val Arg Ile Phe His Cys
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<400> 673

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<211> 14

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<222> (7) ... (0)

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<210> 675
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<210> 676
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<400> 677
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1 5 10

<210> 678
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Val Gly Thr Tyr Arg Cys Val Pro Gly Lys Lys Gly Gly Tyr
1 5 10

<210> 679
<211> 14
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1 5 10

<210> 681
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1 5 10

<210> 682
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<400> 682
Glu Trp Phe Lys Asp Leu Ala Leu Lys Trp Tyr Gly Leu Pro
1 5 10

<210> 683
<211> 14
<212> PRT
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<220>
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<210> 685
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<220>
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<210> 690
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<211> 14
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1 5 10

<210> 692
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<212> PRT
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<220>
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Arg Ala Leu Tyr Leu Leu Ile Arg Arg Val Leu His Leu Gly
1 5 10

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<210> 694
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1 5 10

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<210> 696
<211> 14
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Gln Gln Trp Ser Glu His His Ala Phe Leu Ser Gln Gly Ser
1 5 10

<210> 697
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<212> PRT
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<210> 698
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1 5 10

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<400> 700
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1 5 10

<210> 701
<211> 14
<212> PRT
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<400> 701
Val Ser Asp Glu Glu Leu Asp Gln Met Leu Asp Ser Gly Gln
1 5 10

<210> 702
<211> 14
<212> PRT
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1 5 10

<210> 703

<211> 14
<212> PRT
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<400> 703
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1 5 10

<210> 704
<211> 14
<212> PRT
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<220>
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1 5 10

<210> 705
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<400> 705
Ser Ala Met Asp Thr Arg Leu Leu Cys Cys Ala Val Ile Cys
1 5 10

<210> 706
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<400> 706
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1 5 10

<210> 707
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1 5 10

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Val Tyr Leu Cys Ala Val Asp Ala Tyr Ser Asn Asp Tyr Lys
1 5 10

<210> 709
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<400> 709
Gln Lys Gln Met Glu Leu Asp Ser Ile Leu Val Ala Leu Leu
1 5 10

<210> 710
<211> 14
<212> PRT
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1 5 10

<210> 711
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<400> 711

Pro Val Met Gly Leu Met Ile Tyr Met Met Val Met Asp His
1 5 10

<210> 712

<211> 14

<212> PRT

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Ser Ser Gln Asp Pro Ala Ser Val Arg Glu Cys His Asp Pro
1 5 10

<210> 713

<211> 14

<212> PRT

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<400> 713

Val Leu Leu Leu Leu Gly Ala Cys Ala Ala Pro Pro Ala Trp
1 5 10

<210> 714

<211> 14

<212> PRT

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<222> (7)...(0)

<223> cSNP translation

<400> 714

Ser Leu Pro Tyr Ala Val Ala Pro Leu Ser Leu Pro Arg Gly
1 5 10

<210> 715

<211> 14

<212> PRT

<213> Homo sapiens

<220>
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<223> cSNP translation

<400> 715
Tyr Gly Pro Gln Cys Gln Leu Val Ile Gln Cys Glu Pro Leu
1 5 10

<210> 716
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
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<400> 716
Thr Met Asp Cys Thr His Ser Leu Gly Asn Phe Ser Phe Ser
1 5 10

<210> 717
<211> 14
<212> PRT
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<400> 717
Gly Thr Thr Glu Thr Gly Gly Gln Gly Lys Gly Thr Ser Lys
1 5 10

<210> 718
<211> 14
<212> PRT
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<220>
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<400> 718
Cys Asn Gly Val Ala Val Cys Ser Asn Gln Asp Leu Ile Thr
1 5 10

<210> 719
<211> 14
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<400> 719
Leu Val Ser Tyr Cys Pro Arg Arg Leu Gln Gln Leu Leu Pro
1 5 10

<210> 720
<211> 14
<212> PRT
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<220>
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<400> 720
Arg Pro Gly Ser Pro Glu Gly Pro Leu Gly Pro Gly Gly Pro
1 5 10

<210> 721
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<220>
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<400> 721
Tyr Ala Glu Arg Tyr Gln Met Pro Thr Gly Ile Lys Gly Pro
1 5 10

<210> 722
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<212> PRT
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<400> 722
Asn Pro Leu Val Pro Gly Thr Pro Gly Arg Pro Gly Ile Pro
1 5 10

<210> 723
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1 5 10

<210> 724
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<400> 724
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1 5 10

<210> 725
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<400> 725
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1 5 10

<210> 726
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<400> 726
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1 5 10

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Leu His Ser Gly His Arg Gln Arg Pro Glu Phe Arg Pro Tyr
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Cys Ser Gln Glu Ala Lys Gln Ser Ala Tyr Cys Pro Tyr Ser
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<210> 800
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<400> 800

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1 5 10

<210> 801
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<210> 802
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<400> 804
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<400> 810
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<400> 811
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<400> 813
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<210> 814
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<400> 814
Gly Gly Ser Val Gln Glu Met Gln Arg Leu Thr Arg Ala Cys
1 5 10

<210> 815
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<400> 815
Val Val Glu Leu Thr Gln Asp Asp Ala Leu Gly Ser Arg Trp
1 5 10

<210> 816
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<400> 816
Lys Asp Phe His Lys Asp Met Leu Lys Pro Ser Pro Gly Lys
1 5 10

<210> 817

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<400> 817
Thr Asn Asn Cys Tyr Arg His Ala Ile Val Thr Thr Ser Ile
1 5 10

<210> 818
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<400> 818
Gly Phe Val Val Phe Ser Ser Leu Gly Tyr Met Ala Gln Lys
1 5 10

<210> 819
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<400> 819
Met Asp Glu Ala Ala Arg Pro Glu Ala Trp Asp Ser Tyr Arg
1 5 10

<210> 820
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<400> 820
Ser Pro Gln Ser Ser Ala Arg Gly Lys Pro Ala Met Ser Tyr
1 5 10

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<400> 821
Leu Glu Asp Leu Ala Gly Trp Lys Glu Leu Phe Gln Thr Pro
1 5 10

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Val Gln Asp Ile Leu Arg Leu Glu Met Pro Ala Ser Lys Ile
1 5 10

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<400> 823
Ser Glu Arg Glu Thr Glu His Thr Pro Ala Leu Ile Met Val
1 5 10

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<400> 824
Lys Val Leu Asp His Trp Cys Ile Met Thr Ser Glu Glu Glu
1 5 10

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<400> 825

Gln Glu Val His Gly Pro Tyr Pro Asp Ser Ser Phe Leu Thr
1 5 10

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<400> 826

Gln Glu Val His Gly Pro Ile Pro Asp Ser Ser Phe Leu Thr
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Glu Leu Cys His Glu Lys Gly Ile Leu Glu Lys Tyr Gly His
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Asn Asn Asn Leu Arg His Thr Asp Glu Met Phe Trp Asn His
1 5 10

<210> 829

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<400> 829

Gly Met Ala Ser Ser Cys Ser Val Gln Val Lys Leu Glu Leu
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<210> 830

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<400> 830

Pro Ser Ile Phe Ile Tyr Arg His Thr Ala Ser Gly Lys Thr
1 5 10

<210> 831

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<400> 831

Pro Pro Pro Pro Pro Gly Ala Pro Gly Gly Ser Gln Asp Thr
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<400> 832

Arg Ala Ala Leu Glu Arg Gly Lys Ala Ile Glu Lys Asn Leu
1 5 10

<210> 833

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Thr Gly Gly Leu Leu Leu Arg Leu Ala Leu Met Leu Gln Leu
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<400> 834
Asp Ser Ser Ser Ser Asn Gly Lys Ala Lys Asn Pro Pro Gly
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<400> 835
Leu Glu Pro Gln Trp Tyr Ser Val Leu Glu Lys Asp Ser Val
1 5 10

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<400> 836
Gln Lys His Ser Ser Gly Xaa Ser Asn Thr Ser Thr Ala Asn
1 5 10

<210> 837
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<400> 837
Trp Gly Thr Glu Asp Asp Ala Thr Gln Ser Tyr His Asn Gly
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<210> 838
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<400> 838
Arg Cys Met Gly Thr Val Asn Leu Asn Gln Ala Arg Gly Ser
1 5 10

<210> 839
<211> 14
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Phe Ser Lys Leu Leu Gly Pro Leu Ser Ala Lys Lys Tyr Leu
1 5 10

<210> 840
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Thr Ser Lys Ile Leu Phe Phe Ser Gln Gly Ser Glu Ile Ala
1 5 10

<210> 841
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<210> 842
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1 5 10

<210> 843
<211> 14
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<400> 843
Lys Gly Gly Glu Gln Lys Arg His Glu Lys Ile Ser Ala Ser
1 5 10

<210> 844
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Ala Pro Gln Gln Glu Gly Glu Ala Ser Lys Glu Lys Glu Glu
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<400> 845

Lys Val Val Gln Ser Pro Gln Ser Leu Val Val His Glu Gly
1 5 10

<210> 846

<211> 14
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<400> 846

Leu Asn Cys Ser Tyr Glu Met Thr Asn Phe Arg Ser Leu Leu
1 5 10

<210> 847

<211> 14
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<222> (7)...(0)

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<400> 847

Thr Asn Phe Arg Ser Leu Gln Trp Tyr Lys Gln Glu Lys Lys
1 5 10

<210> 848

<211> 14
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<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 848

Leu Asp Lys Lys Glu Leu Ser Ser Ile Leu Asn Ile Thr Ala
1 5 10

<210> 849

<211> 14
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1 5 10

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Phe Phe Lys Arg Asn Arg His Thr Pro Gly Arg Arg End End
1 5 10

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<210> 852
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<400> 852
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1 5 10

<210> 853
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Gly Gly Lys Met Gly Gly Arg Lys Arg Leu Gln Lys End Ser
1 5 10

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Tyr Ser Ser Tyr Gly Gln Ser Leu Phe Thr Val Leu Trp Trp
1 5 10

<210> 855
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1 5 10

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1 5 10

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<400> 857

His Gly Val Leu Asp Ala Cys Leu Ile His Pro Gly Pro Ala
1 5 10

<210> 858

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Arg Asp Lys Gly Ser Gly Arg Ala Cys Gly Leu Glu Gly Gln
1 5 10

<210> 859

<211> 14

<212> PRT

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<222> (7)...(0)

<223> cSNP translation

<400> 859

Thr Asp Phe Phe Phe End Thr Lys Lys Ala Leu End Leu
1 5 10

<210> 860

<211> 14

<212> PRT

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<210> 861

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<220>

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<400> 861

Arg Tyr Leu Asp Trp Ile Leu Trp Ala His Gln Arg

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<400> 862
Ala Glu Leu Arg Leu Leu Arg Ala Gln Val Lys Ser Gly Ala
1 5 10

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Ala Glu Leu Arg Leu Leu Arg Ala Gln Val Lys Ser Gly Ala
1 5 10

<210> 864
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<210> 865
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<212> PRT
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Ile His Phe Glu Asp Tyr Gly Val Leu Gly His His Gln Leu
1 5 10

<210> 866
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Asn Phe Ile Leu Ala Cys Pro Arg End Arg Asn Gly Gly Ile
1 5 10

<210> 867
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Arg Glu Lys Leu Arg Asn Phe His Phe Ser Met Ser Arg End
1 5 10

<210> 868
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<400> 868
Leu Leu Leu Leu Leu Arg Arg Pro Ala Gln Pro Gln Leu
1 5 10

<210> 869
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<212> PRT
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<400> 869
Lys Arg Val Ala Gly Gly Leu Arg End Ser Ser Ser Ala Trp
1 5 10

<210> 870
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<400> 870
Gly Lys Arg Val Ala Gly Gly Leu Arg End Ser Ser Ser Ala
1 5 10

<210> 871
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Ser Ser Gly Arg Pro Thr Gly Tyr Cys Leu Gln Leu Gln Gln
1 5 10

<210> 872
<211> 14
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<400> 872
Gln Arg Ser Ile Ser Ala Asp End End Pro Ala Arg Val Ile
1 5 10

<210> 873
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<400> 873
Arg Ala Pro Val Ile Leu Gly Pro Pro Thr Thr Cys Ser Ser
1 5 10

<210> 874

<211> 14
<212> PRT
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<222> (7) ... (0)
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<400> 874
Met Gly Leu Ser Gly Phe Leu Thr Gly Pro Pro Pro Pro Gly
1 5 10

<210> 875
<211> 14
<212> PRT
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<220>
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<222> (8) ... (0)
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<400> 875
Leu Met Gly Leu Ser Gly Phe Leu Thr Gly Pro Pro Pro Pro
1 5 10

<210> 876
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7) ... (0)
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<400> 876
Pro Arg Thr Pro Ala Glu Pro Pro Pro Leu Gly Arg Gln Ala
1 5 10

<210> 877
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<212> PRT
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<220>
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<400> 877
Gly Thr Gly Asp Trp Arg Glu Pro Gly Ala Ala Ser Glu Arg
1 5 10

<210> 878
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<212> PRT
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<220>
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<400> 878
Gln Gly Arg Gln Ser Lys Gly Leu Arg Arg Arg Thr Trp Pro
1 5 10

<210> 879
<211> 14
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<220>
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<400> 879
Lys Cys Lys Cys Ser Arg Lys Asp Pro Arg Ser Ala Thr Ala
1 5 10

<210> 880
<211> 14
<212> PRT
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<220>
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<223> cSNP translation

<400> 880
Cys Lys Cys Ser Arg Lys Asp Pro Arg Ser Ala Thr Ala Thr
1 5 10